

<b>Laboratory</b>	<b>Photovoltaic Test Facility, National Institute of Solar Energy, 19<sup>th</sup> Mile Stone, Gwal Pahari, Dist. Gurgaon, Haryana</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>23.02.2015</b>
<b>Certificate Number</b>	<b>T-1848</b>	<b>Valid Until</b>	<b>22.02.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. PHOTO VOLTAIC EQUIPMENT</b>				
<b>1.</b>	<b>Crystalline Silicon Terrestrial Photovoltaic Modules</b>	Visual Inspection	IEC 61215: 2005 (Clause 10.1) IS 14286: 2010	Qualitative
		Maximum Power Determination	IEC 61215: 2005 (Clause 10.2) IS 14286: 2010	Upto 600 W
		Insulation	IEC 61215: 2005 (Clause 10.3) IS 14286: 2010	Upto 1 TΩ
		Temperature coefficient	IEC 61215: 2005 (Clause 10.4) IS 14286: 2010	Upto 600 W
		NOCT by Primary method	IEC 61215: 2005 (Clause 10.5) IS 14286: 2010	Upto 100 °C
		Performance at STC & NOCT	IEC 61215:2005 (Clause 10.6) IS 14286: 2010	Upto 600 W
		Performance at low irradiance	IEC 61215: 2005 (Clause 10.7) IS 14286: 2010	Upto 600 W
		Outdoor Exposure	IEC 61215: 2005 (Clause 10.8) IS 14286: 2010	Upto 600 W
		Hot Spot Endurance	IEC 61215: 2005 (Clause 10.9) IS 14286: 2010	Upto 600 W
		Thermal cycling	IEC 61215: 2005 (Clause 10.11) IS 14286: 2010	Upto 600 W
	Humidity Freeze	IEC 61215: 2005 (Clause 10.12) IS 14286: 2010	- 40 °C to 85 °C 85 ± 5 % R.H.	

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**Discipline**                      **Electronics Testing**                      **Issue Date**    **23.02.2015**

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Crystalline Silicon Terrestrial Photovoltaic Modules</b>	Damp Heat Test	IEC 61215: 2005 (Clause 10.13) IS 14286: 2010	85 ± 2 °C 85 ± 5 % R.H.
		Robustness of Termination Test	IEC 61215: 2005 (Clause 10.14) IS 14286: 2010	Modules up to 50 kg
		Wet leakage current test	IEC 61215: 2005 (Clause 10.15) IS 14286: 2010	Upto 1 TΩ
		Mechanical load Test	IEC 61215: 2005(Clause 10.16) IS 14286: 2010	2400 Pa
		By pass diode thermal test	IEC 61215: 2005 (Clause 10.18) IS 14286: 2010	100 °C

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